

ARMSTRONG STATE COLLEGE

AN EXAMINATION OF ABORIGINAL ARTIFACTS
AT JULIANTON SLAVE SITES 09MIAS832,862,863 AND 871

BY

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The archaeological examination of Julianton Plantation has yielded 2132 sherds of aboriginal ceramics. The site, a slave occupation site, was characterized by hard-packed shell floors that yielded a variety of ceramic types and raised the question: Could coastal Georgia slave site dwellings be identified by the aboriginal ceramic distribution contained within the shell floor? A systematic examination of aboriginal artifacts and their relationship with lithic materials was necessary to determine if aboriginal ceramic sequencing could determine the presence of a slave dwelling.

Chester DePratter's work in aboriginal ceramic sequencing was an invaluable tool to the examination of the data obtained from Julianton. (Thomas et.al 1979 p109-132) DePratter identified eight general periods of ceramic changes:

St. Simons	2200 - 1100 B.C.
Refuge	1100 - 400 B.C.
Deptford	400 B.C. - A.D. 500
Wilmington	A.D. 500 - 1000
St. Catherines	A.D. 1000 - 1150
Savannah	A.D. 1150 - 1300
Irene	A.D. 1300 - 1550
Altamaha	A.D. 1550 - 1700
(Thomas et.al. 111-112)	

The distribution of ceramic types at Julianton Plantation is shown in Table 1. An examination of artifact distribution and sequence was necessary to determine if the slave sites at Julianton would indicate a significant distribution pattern and, if the pattern was significant, was there a correlation of ceramic types and aboriginal lithics?

A total count by test pit was completed and the Kolmogorov - Smirnov test was performed yielding 46 test pits of possible distribution significance.(see table 2) Of the 46 test pits found significant, 38 were within the 0.01 range and 8 were in the 0.05 range indicating a non-random distribution of artifacts with the total site area.(Thomas 1986, p336)

The total count was then broken down by site and level and the χ^2 test was performed to determine the relationship between the distribution pattern of ceramics and aboriginal lithics. (Thomas 264-302) Only site 862, the smallest of the four sites, failed to show any significant correlation between the ceramic distribution and the presence of lithic material. Each of the three remaining sites exhibited a marked relationship between the presence of aboriginal ceramics and lithic material. (see Table 3)

A further examination of the relationship of ceramics to lithics was needed and each individual site was broken down by test pit and level and each individual test pit was examined by the χ^2 test.(see Table 4)

Following the determination of the the relationship and the distributive significance of aboriginal ceramics, all that was necessary was to look at the distribution of early artifacts in levels 1 through 3 and determine if there was a change in sequence that would indicate that the shell floors of the slave dwellings could be determined by the presence of aboriginal ceramics. Table 5 shows the distribution of early aboriginal ceramics in conjunction with later ceramics and clearly indicates the presence of early artifacts in the first forty centimeters of

excavation in association with later period artifacts. Indeed 77% of all fiber sherds discovered were in the first four levels. Eighty-three percent of all Deptford sherds, 87% of all Refuge sherds and 98% of all Wilmington sherds were located in the first four levels of excavation. The distribution of later phase artifacts in levels under 40 centimeters presented rapidly decreasing percentages and indicated that after the 40 centimeter barrier is passed, the "normal" sequence of ceramic distribution continues.

The four sites of slave occupation at Julianton Plantation yielded 3142 aboriginal artifacts, the majority of which were from the Savannah phase and chert. Levels 1 through 4 yielded 78% of the total aboriginal artifacts recovered while 16% of the artifacts in levels 1 through 4 date from A.D. 1000 or earlier. The chronological sequence reveals that 94% of the early phase ceramics were found in the first four levels. The disruption of the chronological sequence indicates manuported shell, probably from a shell midden, that was used as a floor layer and the presence of early aboriginal and late aboriginal artifacts in a disrupted sequences would indicate that the site was indeed a dwelling floor. A closer study of iron fasteners and the mean ceramic dates of historic ceramics should lend support to the hypothesis and confirm the presence of a slave dwelling.

REFERENCES

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TABLE 2
K-S TEST
SIGNIFICANT TEST PITS

832	K-S	862	K-S	863	K-S	871	K-S
132	= .037	10	= .058	7	= .040	7	= .040
133	= .041			8	= .044	8	= .044
134	= .040			19	= .064	56	= .069
136	= .043			20	= .040	57	= .069
138	= .043			23	= .052	60	= .076
139	= .044			27	= .056	61	= .088
142	= .044			28	= .057	81	= .090
143	= .041			29	= .057	82	= .077
144	= .041			30	= .057	85	= .080
				81	= .090	86	= .064
				82	= .077	138	= .043
				83	= .090	126	= .044
				85	= .080	182	= .060
				86	= .064		
				90	= .063		
				93	= .034		
				79	= .103		
				491	= .055		
				492	= .054		

TABLE 3
X² TOTAL SITE

09MIAS832

45 DEGREES OF FREEDOM

CHRT*	DEPT	FIBR	IREN	KATE	* = RELATIONSHIP		
126.97	17.6	7.99	51.86	22.01	RFUG	SAVH*	WILM
					12.53	56.01	6.45

09MIAS863

72 DEGREES OF FREEDOM

CHRT*	DEPT*	FIBR	IREN*	KATE	* = RELATIONSHIP			
					QRTZ	RFUG	SAVH	WIL
166.31	99.29	8.53	420.47	65.68	80.32	29.89	84.4	83.

09MIAS871

72 DEGREES OF FREEDOM

CHRT*	DEPT	FIBR	FLNT	IREN	* = RELATIONSHIP			
					KATE	RFUG	SAVH	WIL
192.47	34.34	1.52	20.96	4.67	37.67	261.24	163.58	14.

TABLE 4
 χ^2 BY TEST PIT

09MIAS832

TEST PIT NUMBER	WARE	χ^2	SIGNIFICANCE
115	CHRT	34.35	.01
127	RFUG	50.59	.01
	SAVH	135.63	.01
143	DEPT	49.98	.01

09MIAS863

TEST PIT NUMBER	WARE	χ^2	SIGNIFICANCE
23	IREN	17.01	.05
27	FIBR	194.81	.01
28	IREN	357.35	.01
	SAVH	94.05	.01
29	CHRT	32.31	.01
79	SAVH	6.13	.05
86	KATE	36.07	.01
	QRTZ	31.23	.05
93	KATE	11.17	.05

09MIAS871

TEST PIT NUMBER	WARE	χ^2	SIGNIFICANCE
81	CHRT	40.94	.01
	DEPT	37.99	.01
	FLNT	49.00	.01
	KATE	49.00	.01
07	KATE	72.43	.01
08	DEPT	25.06	.05
	KATE	51.16	.01
56	CHRT	48.88	.01

TABLE 5
TOTAL DISTRIBUTION BY LEVEL: JULIANTON PLANTATION

Summary: @SUM

Field: NUMBER

		WARE										
		CHRT	DEPT	FIBR	FLNT	IREN	KATE	QRTZ	RFUG	SAVH	WILM	ALL
		----	----	----	----	----	----	----	----	----	----	----
L E V E L	0	42	8	1		20	6		1	55	1	134
	1	19	40	2	1	107	55	2	8	169	14	417
	2	58	103	4		43	89	1	14	346	17	675
	3	154	73	2		11	118	1	53	208	23	643
	4	260	70	19		3	51	2	4	185		594
	5	191	18	7			51	2	12	34	1	316
	6	91	3	1		1	4	6		9		115
	7	72	5			1				15		93
	8	85	33							14		132
	9	23										23
ALL	995	353	36	1	186	374	14	92	1035	56	3142	

APPENDIX

- I TABLE SHOWING THE TOTAL NUMBER OF EARLY ABORIGINAL CERAMIC TYPES FOUND AT JULIANTON SITES 832,862,863 AND 871.
- II TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR SITE NUMBER 09MIAS832.
- III TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR SITE NUMBER 09MIAS862.
- IV TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR SITE NUMBER 09MIAS863.
- V TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR SITE NUMBER 09MIAS871
- VI GRAPH: ARTIFACT DISTRIBUTION BY LEVEL 09MIAS832
- VII GRAPH: ARTIFACT DISTRIBUTION BY LEVEL 09MIAS862
- VIII GRAPH: ARTIFACT DISTRIBUTION BY LEVEL 09MIAS863
- IX GRAPH: ARTIFACT DISTRIBUTION BY LEVEL 09MIAS871
- X SITE REPORT: 09MIAS832, 862, 863, AND 871

TABLE SHOWING THE TOTAL NUMBER OF EARLY CERAMIC
TYPES FOUND AT SITES 832,862,863 AND 871

Summary: @SUM

Field: NUMBER

		WARE				
		DEPT	FIBR	RFUG	WILM	ALL
		----	----	----	----	----
L	0	8	1	1	1	11
E	1	40	2	8	14	64
V	2	103	4	14	17	138
E	3	73	2	53	23	151
L	4		19	4		23
	5		7	12	1	20
	6		1			1
ALL		224	36	92	56	408

TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR
SITE NUMBER 09MIAS832

Summary: @SUM

Field: NUMBER

		WARE CHRT	DEPT	FIBR	IREN	KATE	QRTZ	RFUG	SAVH	WILM	ALL
		----	----	----	----	----	----	----	----	----	----
T	0					1			13	1	15
E	115	2			28	5					35
S	117					6					6
T	118	1	1			32			28		62
	123								3		3
P	126					1					1
I	127	29				2		2	7		40
T	128	61				2	1		18		82
	130		10		2	4			32		48
N	131		1			3			2		6
U	132								1		1
M	133	3							20		23
B	134		4			6		3	18		31
E	136	1				2		5	8		16
R	138			1		11		3	16		31
	139	2							24		26
	142	2		1	1	2		2	23		31
	143	6	1	1	1	3			27		39
	148	2				11			16		29
ALL		109	17	3	32	91	1	15	256	1	525

TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR
SITE NUMBER 09MIAS862

Summary: @SUM

Field: NUMBER

		WARE CHRT	DEPT	FIBR	KATE	RFUG	SAVH	ALL
		----	----	----	----	----	----	----
T	1	1	1	13		1	18	34
E	2		2		2		23	27
S	3	5					11	16
T	10	4					11	15
ALL		10	3	13	2	1	63	92

P
I
T

N
U
M
B
E
R

TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR
SITE NUMBER 09MIAS863

Summary: @SUM

Field: NUMBER

	WARE	CHRT	DEPT	FIBR	IREN	KATE	QRTZ	RFUG	SAVH	WILM	ALL
	----	----	----	----	----	----	----	----	----	----	----
T	0										
E	3								1		1
S	7								14		14
T	8					4					4
	19	3		2		4					4
P	20		6			80			22		107
I	23	2		2	12	25			39		70
T	24					4			9		29
	27		1	6	14		1		69	1	71
N	28	159	85	2	36	4			5	3	33
U	29	1		1		20	1	16	83		402
M	30	4		3	3	5			22		29
B	45		15		5	11			6		27
E	79	6	2			10			9		39
R	81								4		12
	82					1					1
	83					7					7
	85	120	10			3					3
	86	85				12		1	14		157
	90	1	2		2	16	8		24		133
	91	1	19			5			20		30
	92	1				5			59		84
	93		2			2			141		144
	97	107	3		18	4			27		33
	491	3	25		23	3			22	48	201
	492	43	4		30	5	1			1	58
ALL		536	174	16	143	1	11	17	595	53	83
						231					1776

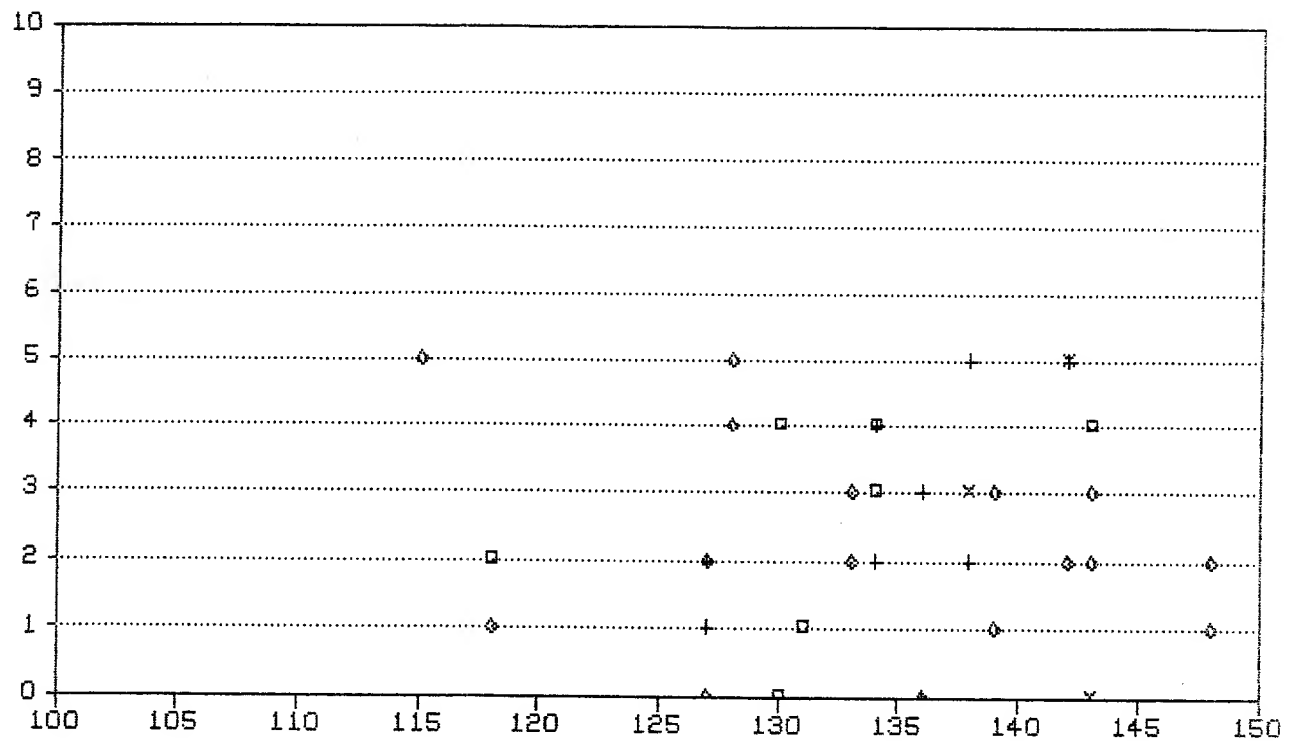
TOTAL RECOVERED ABORIGINAL ARTIFACT COUNT FOR
SITE NUMBER 09MIAS871

Summary: @SUM

Field: NUMBER

		WARE CHRT	DEPT	FIBR	FLNT	IREN	KATE	QRTZ	RFUG	SAVH	WILM	ALL
		----	----	----	----	----	----	----	----	----	----	----
T	0		1									1
E	3	7	2									9
S	4	82	8									90
T	7	88	7			1	4					100
	8	84	9				4					97
P	56	37	7				4			117		165
I	57	9					2	1				12
T	60	9	36	1		2		1				49
	61	5				2	2					9
N	81	9	2		1		1		48			61
U	82	8	6				7		4			25
M	85	2					9					11
B	86		2			2	14					18
E	126		27	1		4			7	4		43
R	138										2	2
	182		52	2			3					57
ALL		340	159	4	1	11	50	2	59	121	2	749

09MIAS832 ARTIFACT DISTRIBUTION



TEST PIT NUMBER

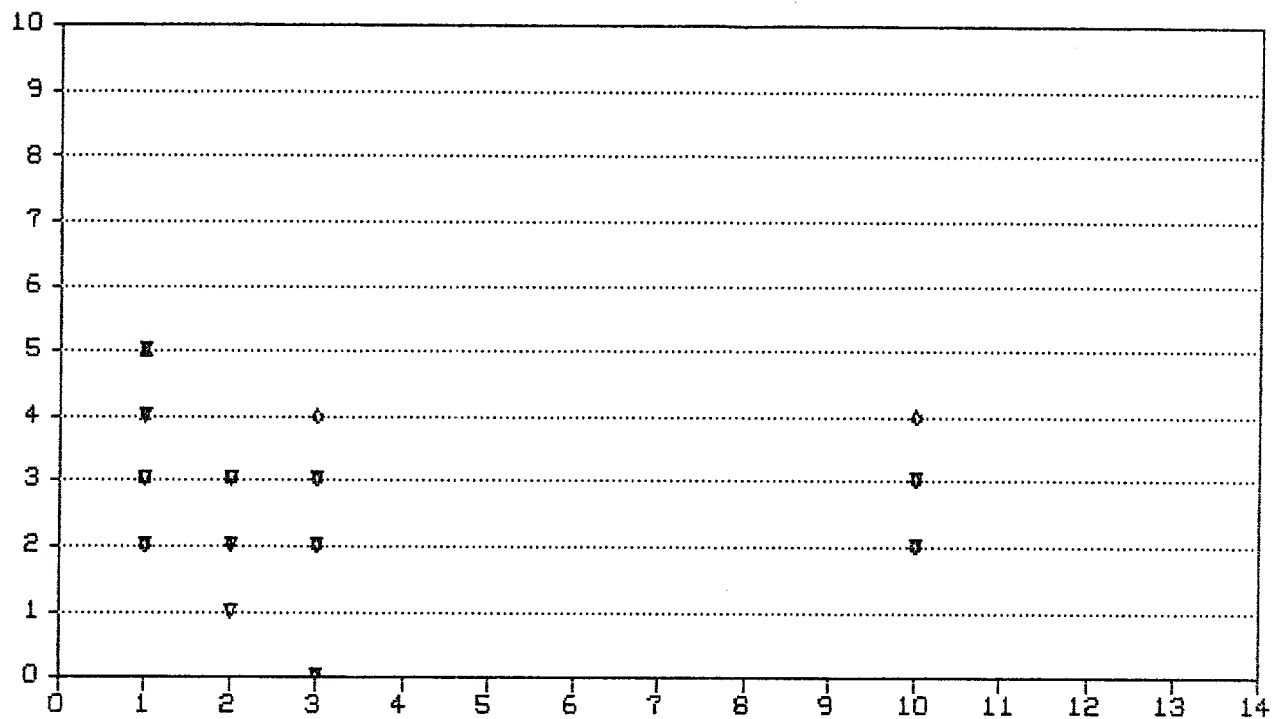
CHRT

DEPT

FIBR

RFUG

09MIAS862 TOTAL DISTRIBUTION



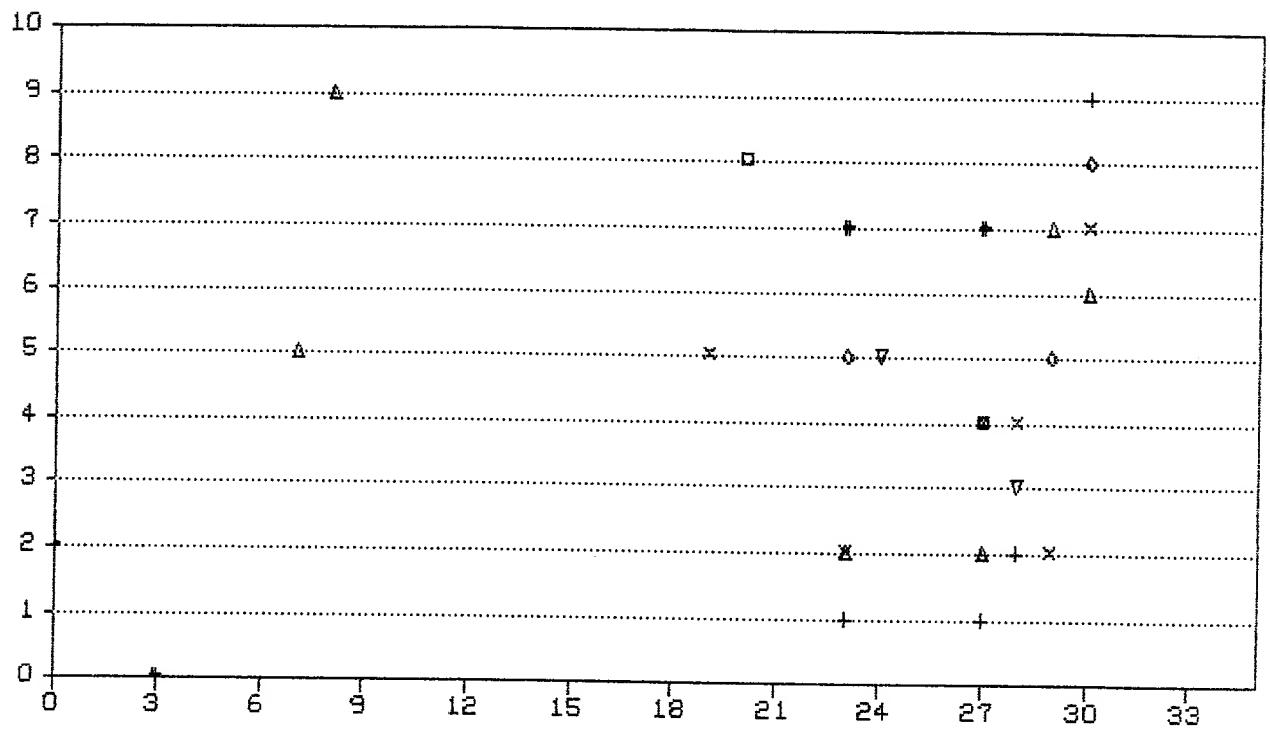
CHRT
RFUG

DEPT
SAVH

X FIBR

+ KATE

09MIAS863 TP 0-30 DISTRIBUTION



CHRT
KATE

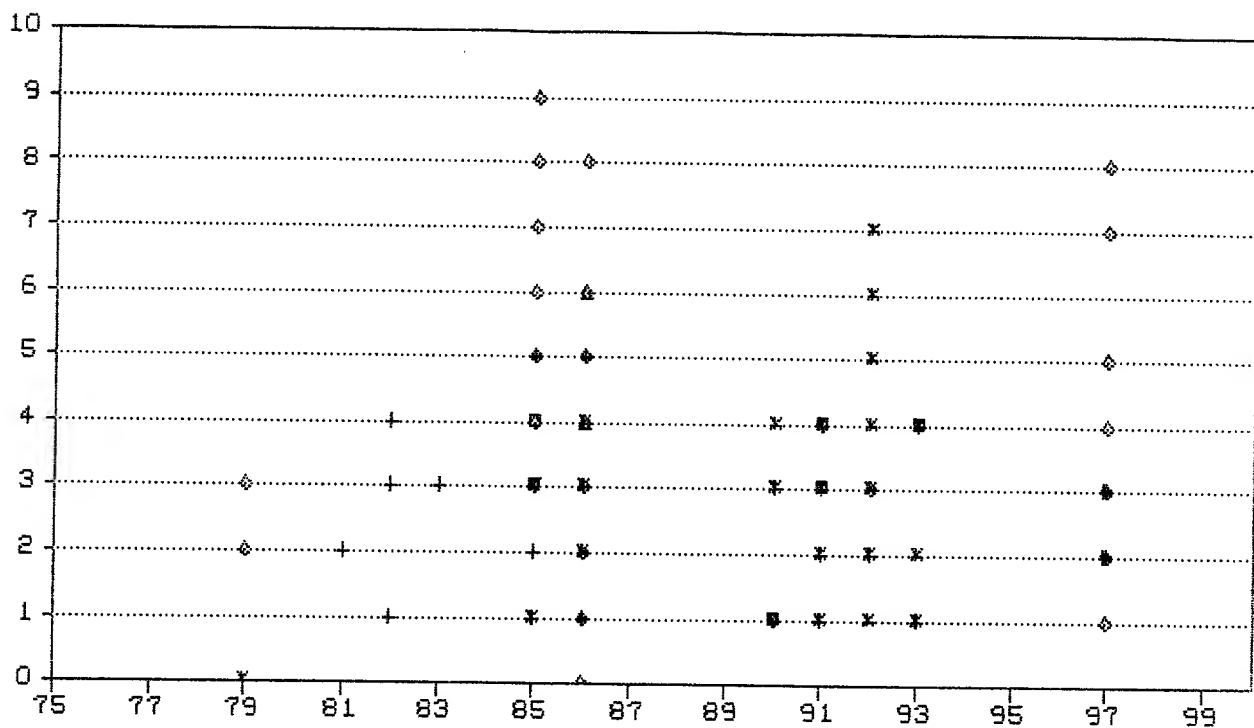
DEPT
QRTZ

FIBR
RFLG

IREN
SAVH

09MIAS863 TP 75-100 DISTRIBUTION

LEVEL



TEST PIT NUMBER

CHRT
QRTZ

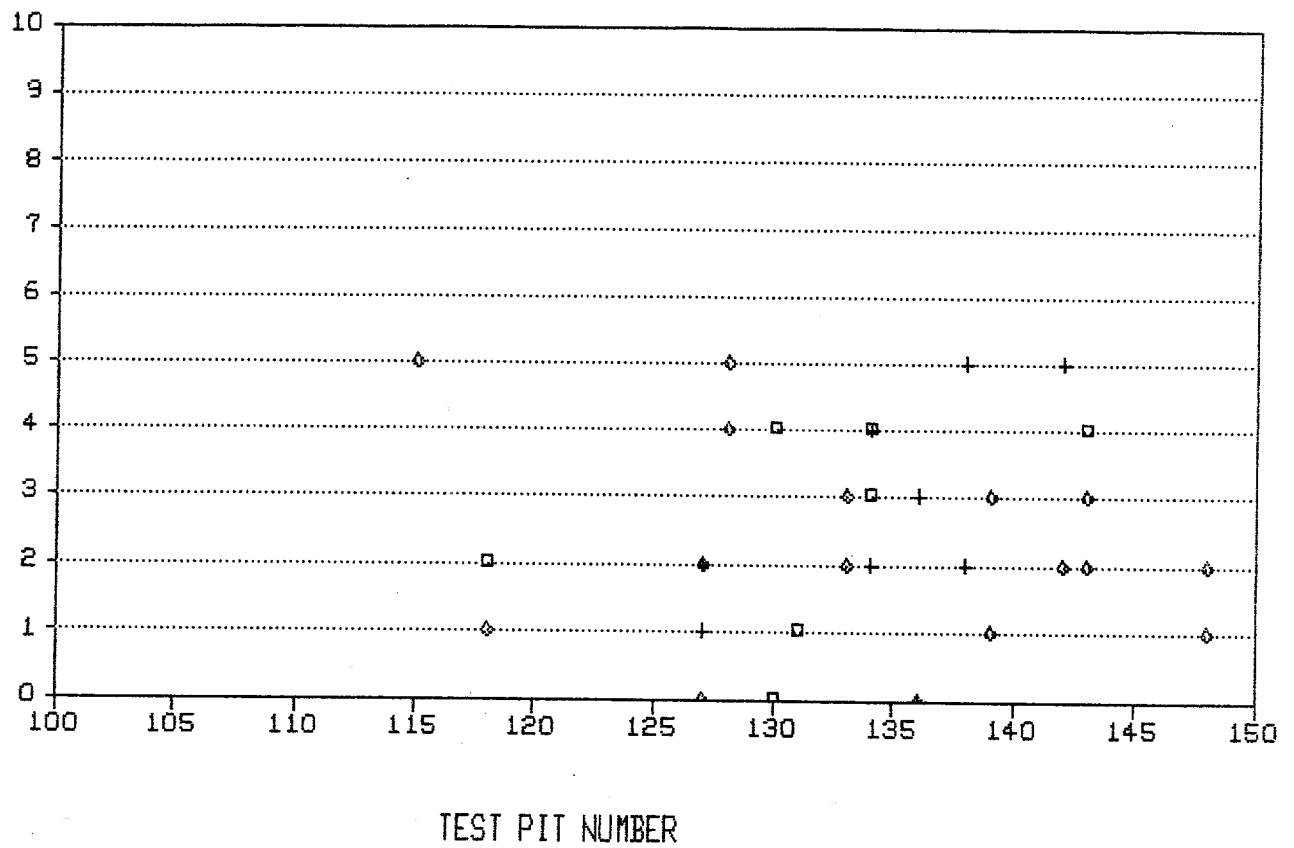
DEPT
RFUG

IREN
SAVH

KATE
WILM

09MIAS871 ARTIFACT DISTRIBUTION

LEVEL



○ CHRT

□ DEPT

x FIBR

+ RFUG